

Broken Bow WER - Appendix E Calculations for Copper

<u>EPA</u>	<u>EPA</u>	<u>OWRB</u>	<u>OWRB</u>
WERd 1	7.05	WERd 1	0.1418
WERd 2	9.04	WERd 2	0.1106
FWERd	7.98	FWERd	0.1253
WERt 1	9.16	WERt 1	0.1092
WERt 2	11.03	WERt 2	0.0907
FWERt	10.05	FWERt	0.0995
f	1.53	f	0.6536
T	12.24	T	0.0817
Hardness (site)	34.9	Hardness (site)	34.9
Cast	7.12	Cast	7.12
Ccst	5.20	Ccst	5.20
Casd	6.83	Casd	6.83
Ccsd	5.00	Ccsd	5.00
Sast (Option 1)	71.56	Sast (Option 1)	71.56
Scst (Option 1)	52.32	Scst (Option 1)	52.32
Sast (Option 2)	10.46	Sast (Option 2)	10.46
Scst (Option 2)	7.645	Scst (Option 2)	7.645
Sast (Option 3)	83.44	Sast (Option 3)	83.44
Scst (Option 3)	61.01	Scst (Option 3)	61.01

Notes:

Values in cells B4 to B11 come from Tables 15, 16, and 20 in GBMc's Broken Bow WER Final Report.

Values in cells D4 to D11 are the inverse of values in B4 to B11.

Value in cells B12 and D12 comes from page 3 in GBMc's Broken Bow WER Final Report.

Yellow-highlighted values are the ones that would go in Appendix E of OK's WQS; note that there may be very minor rounding differences between these values and ones presented in GBMc's Broken Bow WER Final Report.

Broken Bow WER - Appendix E Calculations for Zinc

<u>EPA</u>	<u>EPA</u>	<u>OWRB</u>	<u>OWRB</u>
WERd 1	0.56	WERd 1	1.7857
WERd 2	1.65	WERd 2	0.6061
WERd 3	2.02	WERd 3	0.4950
WERd 4	1.69	WERd 4	0.5917
FWERd	1.33	FWERd	0.7519
WERt 1	0.75	WERt 1	1.3333
WERt 2	1.88	WERt 2	0.5319
WERt 3	2.3	WERt 3	0.4348
WERt 4	1.94	WERt 4	0.5155
FWERT	1.58	FWERT	0.6314
f	1.36	f	0.7353
T	1.81	T	0.5525
Hardness (site)	34.9	Hardness (site)	34.9
Cast	47.96	Cast	47.96
Ccst	43.44	Ccst	43.44
Casd	46.91	Casd	46.91
Ccsd	42.83	Ccsd	42.83
Sast (Option 1)	75.96	Sast (Option 1)	75.96
Scst (Option 1)	68.80	Scst (Option 1)	68.80
Sast (Option 2)	63.79	Sast (Option 2)	63.79
Scst (Option 2)	58.25	Scst (Option 2)	58.25
Sast (Option 3)	84.85	Sast (Option 3)	84.85
Scst (Option 3)	77.48	Scst (Option 3)	77.48

Notes:

Values in cells B4 to B15 come from Tables 17, 18, and 20 in GBMc's Broken Bow WER Final Report.

Values in cells D4 to D15 are the inverse of values in B4 to B15.

Value in cells B16 and D16 comes from page 3 in GBMc's Broken Bow WER Final Report.

Yellow-highlighted values are the ones that would go in Appendix E of OK's WQS; note that there may be very minor rounding differences between these values and ones presented in GBMc's Broken Bow WER Final Report.